

,但是我们就是我们的是否,我们就是我们的,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们也不会不会不会不会。""我们是我们的人,我们就是我们的人,我

804/26-58-12-21/44 Shalverov, K.A. AUTHOR: The Effect of the Wind-And-Sand Stream on Some Desert Plants (Vliyaniye vetropeschanogo potoka na nekotoryye rasteniya TITLE: pustyni) Priroda, 1958, Nr 12, pp 101 - 102 (USSR) PERIODICAL: Continuous heavy wind and sand streams are characteristic for the city of Nebit-Dag between the Great and Small Balkhan in ABSTRACT: the Turkmen SSR. The effects upon plant life were studied by the city's Experimental Station for the Melioration of Agriculture and Forests. From 3 to 7 May 1954, a wind-andsand stream swept the area with a speed of 16.3 m/sec in an east-north-east direction of 79 45 at a relative air humidity varwing between 10 and 30 % and a mean temperature of 29°C. The local bristle-haired tamarisk and the Malura osage orange withstood the current best, the Canadian poplar hetter than the Bolean poplar; lilac and jasmine suffered most. The damages to trees and shrubs were due to parching and clogging of the stomata of the leaves, in addition to many kinds of fractures, torsions and lesions. Most damages occurred at a height of 5 to 15 cm of the current from the ground surface, Card 1/2

30V/26-58-12-21/44

The Effect of the Wind-And-Sand Stream on Some Desert Plants

while a height of 2 m above ground was least affected. Buildings or fences standing in the way of the wind-andsand current provided good protection to the trees and shrubs hehind. There are 2 photographs

ASSOCIATION: Nebit-Dagskaya agrolesomeliorativnaya opytnaya stantsiya (The Nebit-Dag Experimental Station for the Melioration of

Agriculture and Forests)

Card 2/2

L KOVA, DIK Solubility isotherms in the systems BeCl - CaCl2-H20, BeCl2-SrCl2 and BeCl_BaCl_- H_OOfat 25° . V.P. Blidin, V.I. Gordienko; and C.K. Shalverova, Zhur, Neorg. Khim. 1,2623-6(1956). The Soln, compns. (w/f) Shalverova, Zhur, Neorg, Khim. 1,2023-0(1950).— The boin, compns, (WCF) and their respective stables solid phases in the system Be 712-GaC12-H20 are: BeC1 34.40, CaC12-14.50, BeC12, 4H20+CaC12, 4H20; BeC12-8.70.

CaC12 35.30, CaC12 4H20+CaC12.6H20. In the system BeC12-SrC12-H20, SrC126H20 is the stable solid phase even in solns, contg. 0.50% SrC12 4-20.

27.93% BeC12. BaC12. 2H20 is a solid phase in the BeC12-BaC12-H20. system at BaCl concess. less than 0.32%. Double salts and solid soles.

C.H. Fuchsman CIA-RDP86-00513R001548420009-8" APPROVED FOR RELEASE: 08/23/2000

GUREVICH, B.L.; SNEGIREVA, O.V.; SHALYA, A.A.

Gas potential of the Crimean Steppes and Sivash region. Gaz.prom.
4 no.8:3-8 Ag '59.
(Crimea--Gas, Natural--Geology)

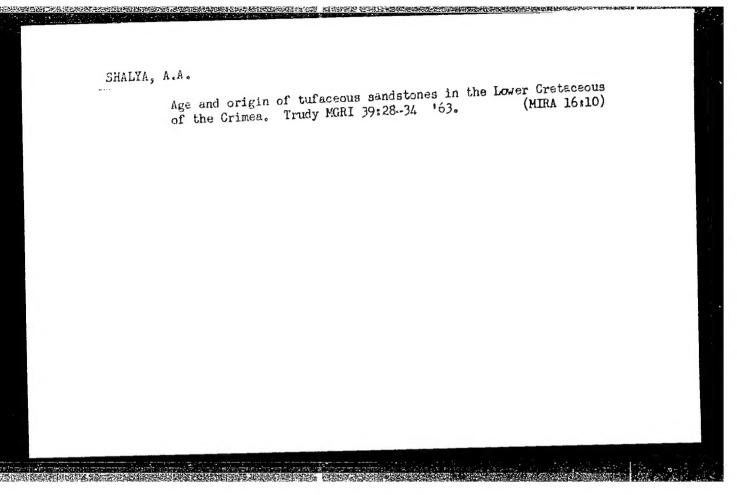
(Crimea--Gas, Natural--Geology)

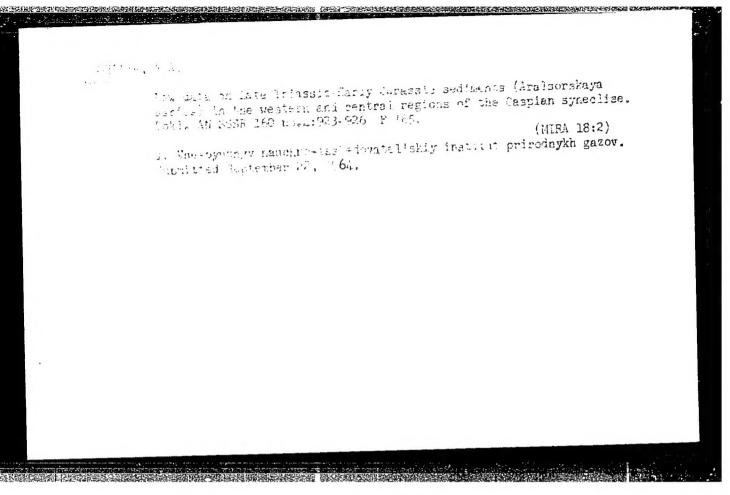
SHALYA, A.A.; SAL'MAN, G.B.

Neocomian sediments in the southwestern Crimea and Crimean
Mountains in the light of new data. Trudy VNIIGAZ no.?:

36-47 '59.

(Crimea--Sediments (Geology))





SHALYA, A.A.; LEONGARDT, N.I.

New data on the structure of Mesozoic sediments in the
Volga-Ural interfluve. Trudy VNIIGAZ no. 25:52-82 165.
(MIRA 18:12)

SHALYA, A.D., elektromekhanik

Method for welding storage battery plates. Avtom., telem.: sviaz'
9 no.9:38 S '65.

1. Krasnolimanskaya distantsiya Donetskoy dorogi.

USSR/Medicine - Industry and Occupations,

Hygiene

Sep 50

110-12

"Contamination by Mercury in Industrial Buildings Where Work Is Done with Mercuric Chloride," V. A. Khrustaleva, N. G. Shalya, Cen Sanitation and Hygiene Lab, Moscow Mun Pub Health Dept

"Gig i San" No 9, pp 22-25

عبا عبد واللانطاق

Reports study on deg of contamination of the air by Hg and mercuric chloride vapors of installation producing battery electrolytes containing 0.2-0.4% mercuric chloride and describes methods used. Inly Hg vapors were of appreciable concn. Suggests substitution of mercuric chloride by some other compd where possible, and periodical med examn of workers where metallic Hg vapors exist. Two tables of data.

PA 176^T73

MOLOKANOV, K.P.; MOROZOV, A.L.; RASHEVSKAYA, A.M.; KRAPUKHINA, Ye.P.; ORLOVA, A.A.; STEPANOVA, V.I.; SHALYA, N.G.

Clinical, diagnostic, and therapeutic aspects of berylliosis. Sov.med. 25 no.4:22-30 Ap '61. (MIRA 14:6)

1. Iz Instituta gigiyeny truda i profzabolevaniy (dir. - deystvitel'nyy chlen AMN SSSR A.A.Letavet) AMN SSSR.

(BERYLLIUM_TOXICOLOGY)

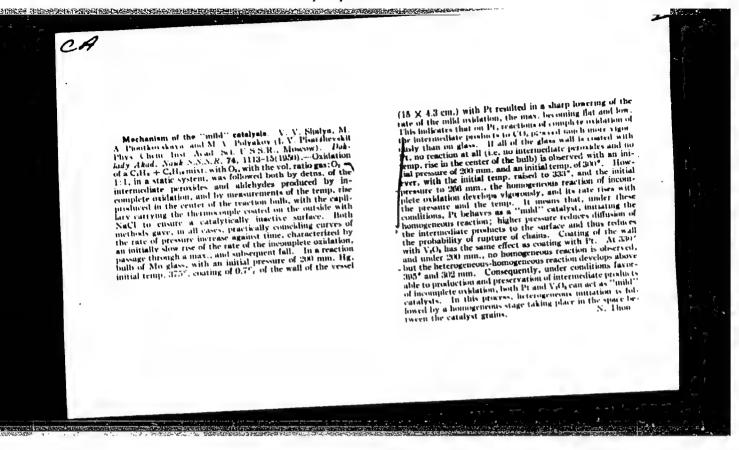
CA

Mechanism of the alow oxidation of hydrocarbons. M. V. Polyakov and V. V. Shalya (L. V. Pisarzhevskil, Inst. Phys. Chem., Acad., Sel. U.S.R., Moscow). Doblady, 18std. Nauk S.S.R. 73, 1970-82(195).—The rate of slow oxidation of a butane-propane petroleum fraction, measured by both the rate of pre-ture increase and by the temp. rise in the center of the reaction tube, passes through a max, as a function of time. In a Molgass tube 176 mm. long, inner diam. 43 mm., at 375°, the kimetic curves detd. by the pressure rise and by the temp rise coincide very exactly; the rate, and the max. 14te, decrease strongly with decreasing initial pressure, 280, 176, and 120 mm. At const. initial pressure, 280 mm. Hg, the rate and the max, rate increase with the initial temp, from 380 to 325°, where they are max, and decrease with further increasing temp. At 325°, a max. ant. of products of incomplete oxidation (aldehydes, ales, peroxides) is obtained. At higher temps, the amt. of products of incomplete oxidation decreases. These facts alone are in agreement with a homogeneous nature of the process of incomplete oxidation, and heterogeneous rupture of chains or heterogeneous completion of the oxidation at the walls. If, however, both the interior of the reaction tube and the capillary carrying the thermocouple are existed with NaCl, no reaction at all takes place within 8 hrs. under an initial pressure of 120 mm. Hg, the rate is very slow, and the rate max, very low, with all the

walls enated with NaCl. It suffices, however, to have a tiny fraction of the surface of the central capillary to get a very marked increase of the rate of pressure use and of the temp, rise, and with \(^1\), of the surface bared, the max, rate is one-half of that found with the total surface bare. This is taken to indicate that the wall is not just the seat of rupture of chains and complete ovolation of the intermediate products, but mainly the seat of generation of chains. The rate max, at a fixed initial pressure decreases linearly with the increase of the fraction of surface covered by NaCl; at an initial pressure of 200 mm, Hg, the max, rate falls to zero with the \(^1\), of the surface covered, whereas under \(^1\)50 and \(^1\)70 inm., the max, rate is practically zero with \(^2\)70'\(^2\) of the surface coated. It is evident that, of the 2 heterogeneous processes of chain rupture and chain generation of surface uncoated dets, the rate throughout the course of the reaction indicates that the generation of chains at the wall, the latter is rate-detg. The fact that the fraction of surface uncoated dets, the rate throughout the course of the reaction indicates that the generation of chains at the wall is operative not only at the initial stage but throughout the reaction. Applied to heterogeneous catalysis, these results indicate that proportionality between the rate and the catalyst surface area is not necessarily an indication of a pute heterogeneous by of the process. Pussibly many heterogeneously catalyzed reactions will prove actually to be mixed homogeneous-heterogeneous processes.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548420009-8"

2



SHALYA, V. V.

tionko, Olivi. T. Shalya (Inct. Phys. Chem., Acad. Sci. Fer. 3.5.2., Niev.). Zour. Piz. Febe. 25, (bv-5) (1.51). - To rate of polymerization of vivyl anatate, natalyzed by beneryl reroxide, was studied in a thorrally insulated vessel to investigate the intocatelysis of the cicin regotion under occiditions of possible thermal emplosion (cf. Solulz and Plaschke, C.A. 36, MO12). The reaction was followed by means of a thermocourte. The av. of sin length T of the modust was lett. vicametrically. Mea time-term, curved first show a climit unward troof during the injustion period r. they an abrust rise of about 1850 during 1 to 3 mir. The value of r (min.) decreases with increasing initial temp. to. Thus for to = 65,77,30, apt 250, r = 50,17,15, and 10, resp. With increasing ontulest cours. (1,1.5.2.3, onl 45), r decresses as well for a court. to(33,12.18.9)). For to = 50.40.65.70, 20, and 250, I = 313,216,160,125,116, and lie. For c.s. 1.c. 1.5, 2.6, 3.4, and 4.05 of catalyst, L = 371,131, 179,107,00, and 00, of coust. to. Expts. with a vessel of mr. div.. contg. 7 cc. of monomer (15 catalyst) led to an explosion with designation of the massel after $r\approx 80$ tir. All exets, reported alove were thus made in a 10on. wasel could. 3 to 5 cc. Then share autocalalysis ** of the but without explosion. This indicate an effect of peopled diam. and grantity of monomer on the kine-Mi shell Bondart tide of rolymerization.

SHALYA, V.V.

Device for taking gas samples at low pressures. Zav. lab. 23 no.4: 501 '57. (MLRA 10:6)

l. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo Akademii nauk USSR.
(Gases--Analysis)

SHALYA, V. V.

AUTHORS: Vysotskiy, Z.Z., and Shalya, V.V.

69-20-1-4/20

TITLE:

The Heats of Hydration of Some Cations and the Effect of Their Adsorption on the Structure of Silica Gels (Teploty gidratatsii nekotorykh kationov i vliyaniye adsorbtsii poslednikh na strukturu silikagelya)

PERIODICAL: Kolloidnyy Zhurnal, 1958, Vol. XX, # 1, pp 29-33 (USSR)

ABSTRACT:

The washing of silica gels, by solutions of various electrolytes, causes differences in the porous structure of the product. The principal cause is the pH of the medium, which influences the character of the ion exchange. In the article, the influence of the nature of some cations adsorbed by the hydrogel of silicic acid on the structure of the dry silica gel is investigated. The structural adsorption characteristics of the silica gels were determined by measuring the adsorption isotherms of methyl alcohol vapors, at 23°C, in a vacuum device with a quartz spring scale. Fig. 1 shows that the silica gel has a fine porous structure when the washing medium is strongly acid (pH 3.5). If the medium is weakly acid, neutral or alkaline, i.e. when a cation

Card 1/3

69-20-1-4/20

The Heats of Hydration of Some Cations and the Effect of Their Adsorption on the Structure of Silica Gels

ASSOCIATION: Institut fizicheskoy khimii AN UkrSSR imeni L.V. Pisarzhevs-

kogo, Kiyev (Institute of Physical Chemistry of the Ukrainian

AS imeni L.V. Pisarzhevskiy, Kiyev)

SUBMITTED: July 6, 1956

AVAILABLE: Library of Congress

Card 3/3

CIA-RDP86-00513R001548420009-8 "APPROVED FOR RELEASE: 08/23/2000

suprions:

是2000年的問題,如此時間通過在10%以及實際數學的過去。10%在20%。10%

Vysotskiy, Z.Z. and Shalya, Y.Y.

sov/60-59-1-5/4

TIPLE:

Properties of Silica Gels Getwines by Enging Gels of Cilicis Acid in Vacuum (Svenetve silibareler, solumberay'sh sorthon pulsy kremmevey kiclosy www.mi.u)

ngy IODIUAL:

Thurn it writte they librall, 1950, Ur 1, pt 35-39 (USSE)

ADOT LOTE

The authors describe the results of a comparative investigation of silica gels obtained from the hydrogels, alcogel and benuogels of the cilions acid. A method of drying the gels of the silicic acid in vacuum at a lowered temperature was developed in the course of this investigation, and it is also described in the article. The properties of silica gels obtained under various conditions are as follows: 1. The dehydration of hydrogols of the silicic acid yiel-3 fine-perous silica gels with the uniform porous structure, the structure of ben 2 ogels almost does not depend on the method of drying but essentially depends upon the conditions of water substitution by the benzene; 2. The substitution of the water of a hydrogel by the ethyl alcohol at room temperature almost does not change the porous structure of the dry gel; the substitution of water by the benzene, however, leads to a change in the structure; 5. The surface tension of the intermicellar liquid doer not generally play any important role in the formation of the porous structure of the silica gels. Physico-chemical

Card 1/2

5(4)

SOV/21-59-1-18/26

AUTHORS:

Polyakov, M.V., Vysotskiy, Z.Z., Shalya, V.V. and

Gushchin, P.P.

TITLE:

On the Existence of a Heterogeneous-Homogeneous Mechanism in Fluid Catalysis Conditions (K voprosu o nalichii geterogenno-gomogennogo mekhanızma v uslovi-

yakh flyuidnogo kataliza)

P_RIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 1,

pp 67-71 (USSR)

ABSTRACT:

The method of fluid catalysis is used (on the example of the reaction of conversion of methanol into formaldehyde in the presence of a copper-pumice catalyst) to clear up the macromechanism of gas reactions in conditions as close as possible to the conditions of the usual industrial catalytic processes. The results in the whole, and the analysis thereof, lead to the conclusion that the studied catalytic process in the

Card 1/2

SOV/21-59-1-18/26

On the Existence of a Heterogeneous-Homogeneous Mechanism in Fluid

boiling contact layer is a complex heterogereoushomogeneous reaction with homogeneous stages proceeding not only beyond the fluid caualyst's layer, but inside the catalyst's layer, between its grains, as well. The observed facts do not fit into the picture of a purely heterogeneous catalytic process. There are 4 graphs and 8 references, 6 of which are Soviet, 1 Italian and 1 English.

AUSOCIATION: Institut fizicheskoy khimii im. L.V. Pisarzhevskogo.

AN UkrSSR (Institute of Physical Chemistry imeni L.V. Pisarzhevskiy of the AS UkrSSR).

PRESENTED: July 28, 1958, by A.I. Brodskiy, Member of the ASUkrSSR

Card 2/2

Investigation of the Catalytic Conversion of Methanol Into Formaldehyde in Fluidized Bed

75676 SOV/80-32-10-25/51

sharply, and the yield of ${\rm CO_2}$, ${\rm H_2}$, and ${\rm CO}$ increased. As the methanol content approached the lower limit of explosive mixtures (7% methanol), the yield of formaldehyde increased again. In the range of 9 to 20% methanol content, a flame appeared in some instances over the fluidized catalyst bed; sometimes a quick flash or explosion occurred. When a catalyst of lower activity was used, the formation yield dropped sharply when the temperature reached 540-5500, and a fame appeared over the fluidized bed. The appearance of this flame showed the presence of a homogeneous reaction within the composite heterogeno-homogeneous catalytic process. This homogeneous reaction originated on the surface of the catalyst; under different conditions, when the walls of the reaction vessel over the fluidized bed are overheated, such reactions can also originate as wall reactions. The presence of homogeneous reactions between the catalyst granules was confirmed by empirical data, as discussed below.

Carc 2/5

Investigation of the Catalytic Conversion of Methanol Into Formaldehyde in Fluidized Bed

75676 S0V/80-32-10-25/51

The gradual change of the curves expressing the yield of the products in relation to temperature up to the moment of the appearance of the flame, indicated that the flame constituted a growth of primary homogeneous stages in the space between the catalyst granules. The yield of formaldehyde was lower in stationary than in fluidized catalyst, other conditions being equal; this was explainable by the decrease of the gaps between the catalyst grains in the stationary state which reduced the chances of homogeneous reactions taking place in these gaps. Further, the decrease of the yield of formaldehyde, H2, and the decrease of the total rate of conversion with the decreasing flow velocity of the gas mixture could be explained only by the contraction of the gaps between the catalyst grains. Porous (with pumice carrier) and nonporous (with quartz carrier) catalysts gave identical yields; this showed that only the outside catalyst l'ayer participated in the catalysis, and this is an additional, indirect argument in favor

Card 4/5

Investigation of the Catalytic Conversion of Methanol Into Formaldehyde in Fluidized Bed

75676 S0V/80-32-10-25/51

of the heterogeno-homogeneous mechanism of the catalytic process. The yield of formaldehyde was from 70 to 74% calculated on methanol: this was considerably higher than the yield over stationary catalyst layer; the above study is, therefore, of practical interest. There are 7 figures; 1 table; and 14 references, 2 U.S., 1 Belgian, 1 British, 10 Soviet. The U.S. references are: Nader, R. N., Wallace, R. D., McKinney, R. W., Ind. Eng. Chem., 44, 1508 (1952); Jones, E., Fowlie, G. G., J. Appl. Chem., 3, 206 (1953).

SUBMITTED:

August 15, 1958

Card 5/5

SHALYA, V.V.; PIONTKOVSKAYA, M.A.; POLYAKOV, M.V.

Oxidation kinetics of a propane-butane mixture in the presence of platinum and vanadium pentoxide. Ukr. khim. zhur. 27 no.2:184-129
[MIRA 14:3]

1. Institut fizicheskoy khimii im. L. V. Pisarzhevskogo AN USSR. (Oxidation) (Propane) (Butane)

YEVMENENKO, N.P.; SHALYA, V.V.; POLYAKOV, M.V.

Effect of the diameter of quartz tubes on the decomposition of methyl alcohol. Ukr.khim.zhur. 28 no.7:829-832 '62. (MIRA 15:12)

1. Institut fizicheskoy khimii im. L.V.Pisarzhevskogo AN UkrSSR. (Methanol) (Pyrolysis)

POLYAKOV, M.V.; YEVMENENKO, N.P.; SHALYA, V.V.

Effect of the reactor diameter on the conversion of methanol in the presence of a silver catalyst. Ukr.khim.zhur. 28 no.9:1019-1023 162. (MIRA 15:12)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN UkrSSR.

(Chemical reactors)
(Methanol)

YEVMENENKO, N.P.; SHALYA, V.V.; POLYAKOV, M.V.

Oxidation of methanol in the presence of a silver catalyst.
Ukr. khim. zhur. 29 no.7:731-733 63. (MIRA 16:8)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN UkrSSR. (Methanol) (Oxidation) (Silver catalysts)

SHALYA, V.V.; KOLOTUSHA, B.I.; MITROKHINA, V.A.; KULINICH, M.T.; POLYAKOV, M.V.

Conversion of alcohols to aldehydes in a fluidized bed of copper and silver catalysts. Ukr. khim.zhur. 29 no.9:904-908 '63. (MIRA 17:4)

1. Institut fizicheskoy khimii im. L.V.Pisarzhevskogo AN UkrSSR.

SHALYA, V.V., KIRTHICH, M.G., FOLYAKOV, M.V.

Effect of the size of grains on the conversion of methyl alcohol to formaldehyde in a fluid bed of silver and copper catalysts.

Kin. i kat. 5 no.53916-919 S-0 '64. (MIRA 17:12)

1. Institut fizicheskoy khimii imeni Pisarzhevskogo AN UkrSSR.

LESHCHENKO, F.D., red.; BARCHENKO, I.P., red.; KGLOMEYTSEVA, M.G., red.; KRYZHANGVSKAYA, Ye.S., red.; SHALYA, L.A., red.

[Rational nutrition] Ratsional'noe pitanie. Kiev, Zdorov'ia, 1965. 219 p. (MIRA 18:9)

- 1. Ukrainskiy nauchno-issledovatel'skiy institut pitaniya.
- 2. Ukrainskiy nauchno-issledovatel skiy institut pitaniya (for Leshchenko, Kryzhanovskaya, Shalya).

ACC NR: AF6036113

SOURCE CODE: UR/0365/66/002/006/0686/0691

AUTHOR: Snalyafirner, A. M.; Degtyareva, R. A.; Pimenov, A. F.; Alysheva, Ye. I.; Yerakov, V. I.; Lifanov, V. F.; Anzin, G. N.

CRG: Moscow Institute for Steels and Alloys (Moscovskiy institut stali i splavov); Central Research Institute for Ferrous Metals (Tsentral'nyy nauchno-issledovatel'skiy institut chernykh metallov); Novolipetskiy Metallurgical Plant (Novolipetskiy metallurgicheskiy zavod)

TITLE: Internal exidation of steel with 3% silicon

SOURCE: Zashchita metallov, v. 2, no. 6, 1966, 686-691

TOPIC TAGS: metal oxidation, silicon steel, hot rolling

ABSTRACT: The article reports a study of the oxidation and decarbonization of steel with 3% silicon and 0.05% carbon in the process of hot rolling in an industrial unit, and of decarbonizing annealing (in the presence of scale) in industrial electric furnaces. Steel strips were hot rolled to a thickness of 2.5 mm. In rolling, the initial oxidation temperature was maintained at $940 \pm 10^{\circ}$. The total length of the discharge table was 36 meters; in the last 30 meters the strip was cooled rapidly with water and was in an atmosphere of steam. After this, the strip was coiled and the air supply was cut sharply. The average cooling rate of the strip on the table, under

Card 1/2

UDC: 620.193.5

· MIN (MIDEN) WIN.

Shalyagin, V.N. Astronomical Company

113 58-5-10/22

TTULE

Effectiveness of Disconnecting the Fan of an Automobile Engine (Effektivnost: otklyucheniya ventilyatora avtomobil'nogo dviga

telya)

PERIODICAL: Avtomobil'naya Promyshlennost', 1958, Nr 5, p 31 (USSR)

ABSTRACT:

By analytic and graphic calculations the author shows that by disconnecting the engine fan periodically, a 3 to 4 % savings in fuel could be achieved when the automobile is loaded. and 4 to 5% when unloaded. The author states that some kind of a device is needed, that can be added to the cooling system to disconnect the ventilator when conditions allow it. There

are 2 graphs and 1 Soviet reference.

ASSOCIATION: Khar'kovskiy avtodorozhnyy institut (The Kharkov Highway

The Part State of

AVAILABLE:

Library of Congress

Card 1/1 1. Automobile industry 2. Cooling fans 3. Economics

12(2)

sev/113-59-4-11/19

Shalyagin, V.N. AUTHOA:

The Dynamics of Braking an Automobile With the Engine TIPLE:

Avtomobil'naya promyshlennost', 1959, Mr 4, pp 32-33 (UJSR) PERIODICAL:

The author introduces the conceptions of the braking factor and the braking characteristic of an automobile engine. For ARSTRACT: this purpose, the author obtained experimental data investigating a GAZ-51 engine in the engine laboratory of the Khar'hovskiy avtomobil:no-dorozhnyy institut (Khar'kov Automobile and Highway Institute). The differential equation of the motion of an automobile during stopping without skidding of the wheels, which is characteristic when using the engine as a brake, may be presented in the following form:

 $j_{\underline{T}} = \frac{d\underline{v}}{dt} = \frac{g}{8} \circ \frac{P_{\underline{T}} + P_{\underline{t}} + P_{\underline{i}} + P_{\underline{w}}}{G_{\underline{a}}}$

whereby \mathbf{j}_{T} - retardation of the automobile; $d\mathbf{v}$ - differential Card 1/3

SOV/113-59-4-11/19

The Dynamics of Braking an Automobile With the Engine

of speed; dt - differential of time; g - gravity acceleration; δ - factor considering the rotating mass of an automobile; P_{n} - braking force, created by the automobile brakes; P_{r} - rolling resistance force of the wheels; P_{i} - lift resistance force; P_{i0} - resistance of the air towards the motion of the automobile. The braking characteristic may be expressed by the following formula:

$$P_{T} = \frac{1}{\eta_{mp}} \circ \frac{M_{T}^{i} \circ i_{k}}{r_{k}}$$

whereby T_{T} - braking moment; i - final drive gear ratio; i - transmission gear ratio; r_{k} - radius of rolling of the wheels; η_{T} - mechanical efficiency of the automobile transmission. The value of the braking factor $D_{T} = \frac{PT + P}{Qa}$ may be represented as a function of the automobile speed. This permits plotting a graph of the dependence of the braking factor upon the speed, which is the braking characteristic

Carl 2/3

sov/113-59-4-11/19

The Dynamics of Braking an Automobile With the Ingine

of an automobile. The author presents a graph of the brake characteristic of the GAZ-51 engine and the braking characteristic of the GAZ-51 automobile in different gears (Figures 1 and 2). The author concludes that the estimation of the braking properties of an automobile should be made by the braking characteristic when using the engine for braking. Then plotting the braking characteristic of an automobile, it is necessary to know the braking characteristic of the engine, which may be obtained by turning the crankshaft of the latter by an external power source. The braking characteristic simplifies the solution of a number of dynamic problems and may simplify the calculation of the motion of an automobile under different operation conditions. There are 4 graphs.

ABBCCIATION: Khar'kovskiy avtomobil'no-dorozhnyy institut (Khar'kov Auto-mobile and Highway Institute).

Card 3/3

. scv/113-59-6-8/21

AUTHOR. Shalyagin, V.N.

TITLE The Balance of Fuel Consumption During Varying

Load Conditions

IERIODICAL. Avtomobilinaya promyshlennosti, 1959, Nr 6, pp 25-

26 (USSR)

ABSTRACT Tests were carried out at the Khar'kovskiy avtomobil'-

no-dorozhnyy institut (Khar kov Automobile Road Transport Institute) to establish the balance of fuel consumption of an automobile under varying conditions. The tests were made on a GAZ-63 automobile with the aid of a special measuring device devised by the author. This device has three measuring vessels with cocks (valves) controlled by electromagnets. The vessels are automatically a camerial to the engine, each vessel being designed to measure fuel consumption under certain working conditions of

the engine. The automatic control system of the instrument is based on the characteristics of the

Card 1/3

SOV/113-59-6-8/21

The Balance of Fuel Consumption During Varying Load Conditions

separate working conditions of the engine. results of the tests are as follows, where (1) is the type of road, (2) is the average technical speed in km per hour (3) is average fuel consumption in liters per 100 km (4), (5) and (6) are the percentages of fuel consumed under traction (working) conditions, compulsory idle running and free idle running respectively;

Town roads with an asphalt surface (2) 23-28 (3) 28-32 (4) 78-86 (5) 4-8

(6) 10--14

Suburban roads with an asphalt surface in flat (1)country (2) 42-46 (3) 20-24

87-93 (5) 1-3 (6) 6-10

Suburban roads with an asphalt surface in hilly (1) country (2) 32-37

24-28 (4) 84-88 (5) 2-4 (6) 10-12

(3) (1) Suburban roads with an asphalt surface in mountainous country (2) 25-30

Card 2/3

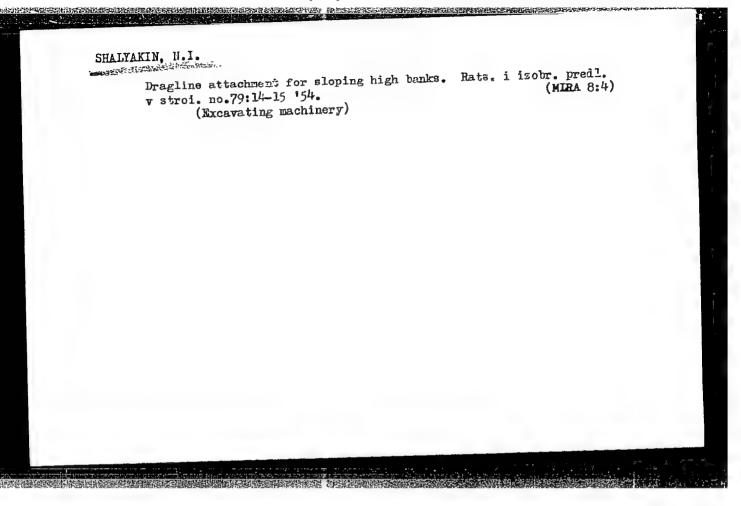
SHKHORUKOV, A.R., inzh.; SHALYAGIN, V.N., inzh.; SHAKHBAZOV, O.K., inzh.

Mechanical brake and slow-down device for mtor vehicles with four-cycle diesel engines. Mashinostroenie no. 2:95-96 Mr-Ap '64. (MIRA 17:5)

SHALYAGIN, V.N., kand. tekhn. nauk

Longitudinal skid resistance of motor vehicles under traction conditions and at engine braking. Avt. prom. 30 no.5:15-18 My '64. (MIRA 17:9)

1. Khar'kovskiy avtomobil'no-dorozhnyy institut.



KURILENKO, S., polkovnik: SPALYAFIN, A., podpolkovnik

Frotection from weapons of mass destruction in a defensive position.

Voen. vest. 41 no.7:37-39 J1 '61. (MIRA 15:1)

(Atomic weapons--Safety measures) (Chemical warfare--Safety measures)

POLUKHIN, P. I., prof., doktor tekhn. nauk; SHALYAPIN, M. M., inzh.; MASTEROV, V. A., inzh.

Conditions of plastic friction on the surface of the contact between strip and rolls during longitudinal rolling. Sbor. Inst. stali i splav. no.40:56-65 '62. (MIRA 16:1)

(Rolling(Metalwork)) (Friction)

SOKOLOV. Nikolay Mikhaylovich, kandidat tekhnicheskikh nauk; SHALYAPIN, R.S., kandidat tekhnicheskikh nauk, redaktor; POLIVANOV, S.I., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Manual on the preparation of rammed concrete piling] Rukovodstva po izgotovleniiu nabivnykh betonnykh chastotrambovannykh svai.

Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 46 p.

(Concrete piling) (MIRA 9:10)

SHALYAPIN, V.V.; STANKO, Ye.A.

Investigating blood pressure and respiration in experimental epilepsy. Fiziol.zhur. (Ukr.) 1 no.3:43-50 My-Je '55. (MLRA 9:9)

1. Odes'kiy medichniy institut, Kafedra patologichnoi fiziologii.
(KPILEPSY) (BLOOD PRESSURE) (RESPIRATION)

KUKHARENKO, T.A. (Moskva); LYUBIMOVA, S.L. (Moskva); SHALYAPINA, A.N. (Moskva).

Feasibilities of determining qualvarieties and the stages of their oxidation. Izv.AN SSSR.0td.tekh.nauk no.12:133-136 D '56. (MIRA 10:1)

(Coal-Analysis) (Oxidation)

DD/GD L 11369-67 EXT(1) UR/0000/66/000/000/0056/0057 SOURCE CODE: ACC NRI AT6036492 AUTHOR: Barutkina, T. S.; Zarubaylo, T. T.; Hityushov, M. I.; Nozdrachev, A. P.; Panov, A. N.; Fedorova, L. D.; Shalyapina, V. G. ORG: none TITLE: Adrenal cortex and nervous system stress reactions [Paper presented at conference on problems of space medicine held in Moscow from 24-27 May 1966] SOURCE: Koferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Hoscow, 1966, 56-57 TOPIC TAGS: animal physiology, adrenal gland, nervous system, space physiology, biologic metabolism ABSTRACT: For a number of years the authors' laboratory has investigated the reaction of the nervous system to various stressors (pain, electric shock, noise, cold etc.) as a function of the adrenal cortex. In chronic dog experiments using implanted electrodes, it was established that there is a decrease in afferent and efferent impulsation, which takes place within a day under the influence of stressors. Card 1/3

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An injection of hydrocortisone prevents bioelectrical depression while desoxycorticosteronacetate either has no effect or a converse one by way of actually depressing bioelectric activity.

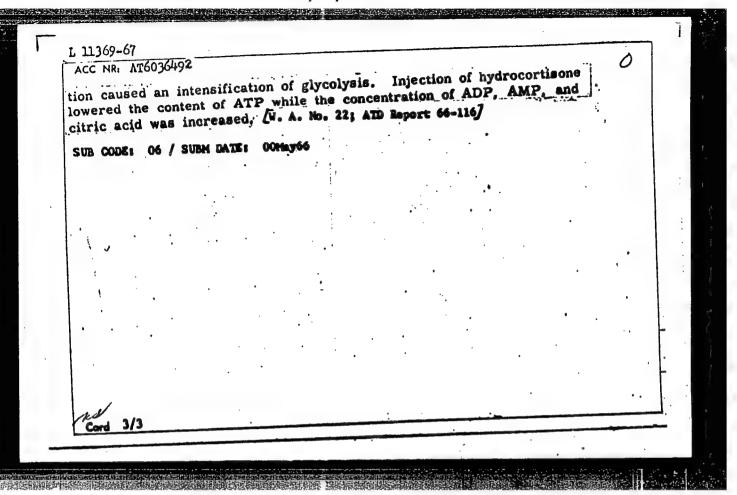
The reaction of brain catecholamines to stressors may depend on the level of peripheral blood corticosteroids. For instance, injection of large doses of hydrocortisone precludes a decrease in brain catecholamine level in response to cold. Chronic injection of "physiological doses" of hydrocortisone prevents a decrease in brain norepinephrin during the chronic application of stressors. Stress leads to a significantly greater depletion of brain catecholamine reserves in adrenalectomized animals than in intact animals.

The metabolism of the brain was studied in a resting state and during stress. The concentration of ATP, ADP, AMP, GTP, GDP, lactic, citric, pyruvic and ketoglutaric acids were determined after injection of hydrocortisone in animals in a resting state and during electrocutaneous stimulation. It was found that under these experimental conditions, which entailed prolonged (one day) irritation, metabolic indices were unchanged. Brief (45 sec) irrita-

Card 2/3

CIA-RDP86-00513R001548420009-8"

APPROVED FOR RELEASE: 08/23/2000



BELOVINTSEVA, M.F.; SHALYAPINA, V.G.

Insulin inactivating capacity of the hepatic tissue of rats in experimental pancreatic diabetes. Pat. fiziol. i eksp. terap. 8 no.6:55-57 N-D '64. (MIRA 18:6)

1. Laboratoriya fiziologii zhelez vnutrenney sekretsii Instituta fiziologii imeni Pavlova AN SSSR, Leningrad.

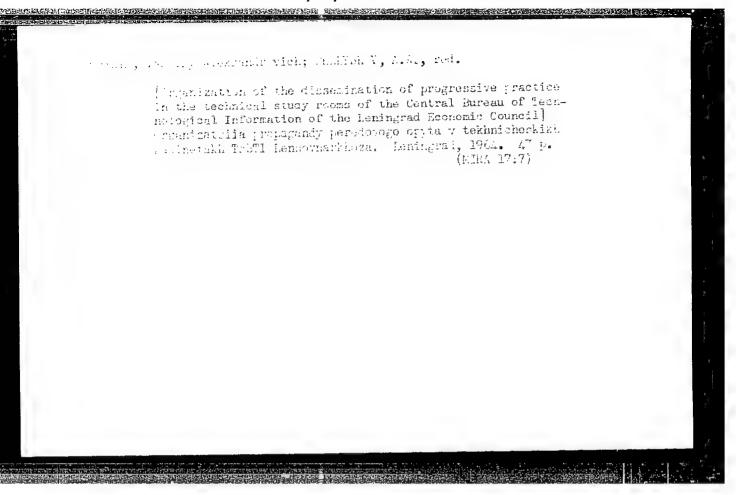
MOTSKUS, I.B. (Kaunas), SHAL'YATYANIS, V.R. (Kaunas)

Use of an electronic digital computer for automatically choosing an optimum variant in the future development of electric networks. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.6:15-22 N-D '60. (MIRA 13:12)

(Electric power distribution)

SHALYBKOV, Aleksendr Aleksendrovich; KUZ'MENKO, Vladimir Il'ich; BALAYEV, G.A., red.

[Organization methods for the propaganda of chemical knowledge] Metodika organizatsii propagandy khimicheskikh znanii. Leningrad, 1964. 37 p. (NIRA 18:3)



BURAKOVSKIY, V.I.; BUKHARIN, V.A.; GEL'SHTEYN, G.G.; KNYAZEVA, G.D.; LEBEDEVA, G.K.; MEYTINA, R.A.; SHALYEKOVA, O.P.

Cardioplegia in surgery with artificial blood circulation. Crud. khir. 5 no.2:26-35 Mr-Ap*63 (MIRA .7:2)

1. Iz Instituta serdechno-sosudistoy khirurgii (direktor - prof. S.A. Kolesnikov, nauchnyy rukovoditel - akademik A.N. Bakulev) AMN SSSR. Adres avtorov: Moskva V-49, Leninskiy prosp., d.8, Institut serdechno-susudistoy khirurgii AMN SSSR.

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MARGORITAN	: FZhBiol., No. 1/., 1958, No. 63460	
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peratures. During the budding stage, the heat requirements become lower. Unfavorable conditions during the passage of development of generative organs or to a deformed development of generative organs or to a deformed development formation, and formation of pollen and parts of the passage of possible.

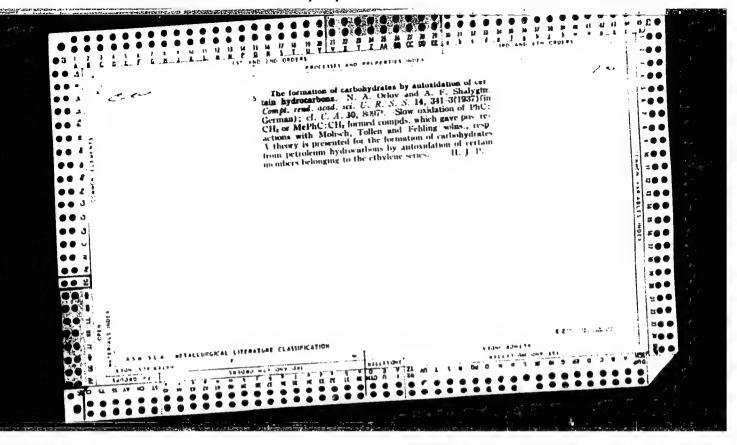
"ard: 2/2

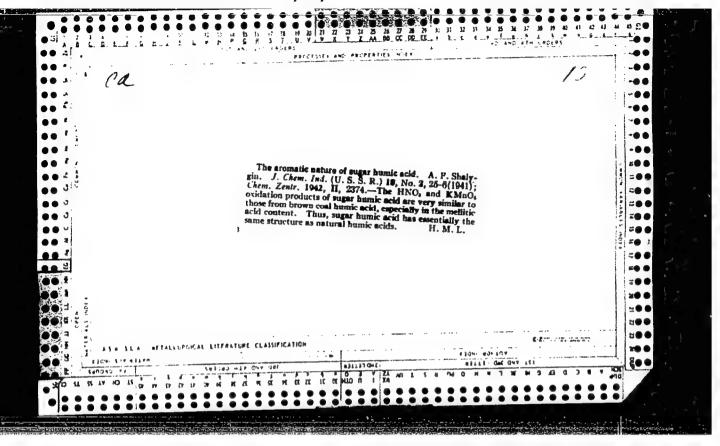
SHALYGANOVA, O.H., dotsent

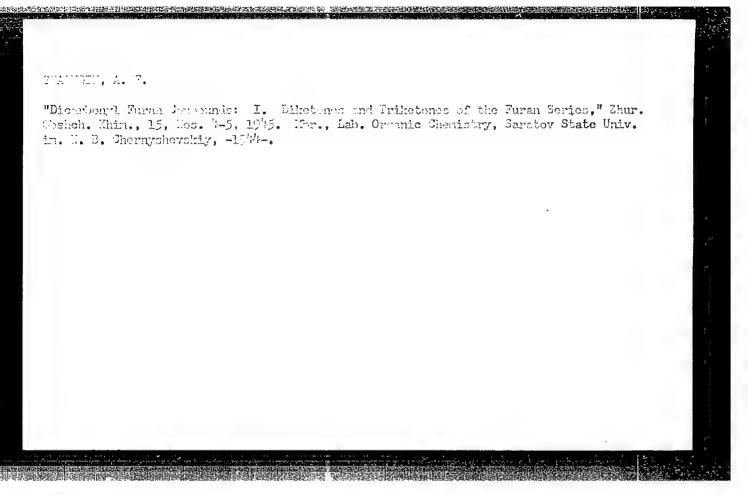
Growth, development and yields of yellow forage lupine in Ivanovo District of Ivanovo Province. Sbor.nauch.trud. Ivan. sel'khoz.inst. no.16:88-95 '58. (MIRA 13:11)

l. Kafedra botaniki i selektsii ${\bf I}$ vanovskogo sel ${\bf i}$ skokho ${\bf z}$ yayst ${\bf v}$ ennogo instituta.

(Ivanovo Province--Lupine)







SHALYJIN, A.F.

Shalygin, A. F. "The aromatic nature of saccharohumic acid," Uchen. zapiski (Chkal. gos. ped. in-t in Chkalova), Natural and geographical sciences series, Issue 1, 1949, p. 85-90 -- Bibliog: 9 items

SO: U-3566,15 March, 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

SHALYGIN, B. Innovator Grigorii Il'ichenko. Mashinostroitel' no.4:4 Ap '63. (MIRA 16:5)

1. Predsedatel' zavodskogo komiteta Smelyanskogo mashinostroitel'nogo zavoda. (Smela--Machinery industry)

KOLESNIKOV, B.P.; SHALYGIN, B.N.; YAKOVLEV, G.S.

Technological aspects of logging operations and their sivicultural significance at the Skorodumsk Logging Camp of the "Sverdles" Combine. Trudy Inst. biol. UFAN SSSR no.16:127-136 '60. (MIRA 13:10)

1. Institut biologii Ural'skogo filiala AN SSSR i Skorodumskiy lespromkhoz kombinata "Sverdles". (Sverdlovsk Province--Lumbering)

表现了这种名字的表现的思想是我们可以可以是这种理解的现在,我们会的是我们的意思,我们会会的对于这种的理解的的的是是,我们的对象,可以会会的对理的的是是对对对的一

STURMAN, A.V., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); BULGAKOV, Yu.N., veter. fel'dsher (Strasherskiy rayon, Moldavskaya SSR); KAL'-NITSKIY, P.I., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); OCHAKOVSKIY, Z.M., veter, wrach (Strashenskiy rayon, Moldavskaya SSR); GOTSENOGA, A.D. (Strashenskiy rayon, Moldavskoy SSR); ABRAM-YAN, G.I., veter. vrach; MEKHTIYEV, M.G., veter. fel'dsher (s.Shirozlu, Vedinskogo rayona Armyanskoy SSR); KIRAKOSYAN, A.A., veter. vrach; GEORGIYEV, Yu.P., veter. vrach; LOMAKIN, A.M., nauchnyy sotrudnik; SHEPELEV, L.A., veter. vrach.; TARASOV, I.I., assistent; ROMASHKIN, V.M., veter. tekhnik; ANDRIYAN, Ye.A.; BARTENEV, V.S.; KOROL', Ye.I., veter. tekhnik; YEROSHENKO, A.K., aspirant; BANZEN, Ya.P.; SARAYKIN, I.M., prof.; ZHEVAGIN, A.N., veter. vrach; BUT'-YANOV, D.D., veter. vrach (Klimovichskiy rayon, Mogilevskoy oblasti BSSR); SHALYGIN, B.V., veter. vrach (Klimovichskiy rayon, Mogilevskoy oblasti, BSSR); RYABOKON, G.T., veter. fel'dsher; MOVSUM-ZADE, K.K., prof.: DUGIN, G.L., aspirant; TITOV, G.I., nauchnyy sotrudnik; MEDVEDEV, I.G., veter. vrach.; ALIKAYEV, V.A.; ALLENOV. O.A., veter.vrach.

Prophylaxis and treatment of noninfectious diseases in calves and piglets, Veterinariia 40 no.2:40-47 F '63. (MIRA 17:2)

1. Ul'yanovskaya oblastnaya veterinarno-bakteriologicheskaya laboratoriya (for Sturman). 2. Kolkhoz imeni Kirova. Volokonovskogo (Continued on next card)

SHARADZENIDZE, S.A.; MINDLIN, I.G.; SHALYGIN, D.A.; TSERETELI, P.A.

Mechanization and automation of pipe mills. Metallurg 8 no.6: 27-29 Je '63. (MIRA 16:7)

l. Rustavskiy metallurgicheskiy zavod.
(Pipe mills) (Automation)

THIRTY Pack and Wekendrovian kand takhn, rank, dotsen; SHMLYGIN, Gor's Maduniryvian, statch, y inch.

Control network of an electromagnet using regulated silicon restlifiers, Tzv.vys.usheb.zav.; elektromekh. 8 no.9:10%2-1021 (MIRA 18:10)

L. Kafedra elektrooborudovaniya promyshlennykh predpriyatiy Novocher-kasskogo politekhnicheskogo instituta (for Denisov). 2. Jaboratoriya av tomatizatsii proizvodstvennykh protsessov Novocherkasskogo politekhnicheskogo instituta (for Shalygin).

ACC NR: 127004342

SOURCE CODE: UR/0144/66/000/010/1102/1114

AUTHOR: Denisov, A. A. (Gandidate of technical sciences, Docent);

Shalygin, I. V. (Senior engineer)

ORG: Novocherkassk Polytechnic Institute (Novocherkasskiy politekhnicheskiy institut)

TITLE: Optimal current diagram in the circuit of a large-power impulse

electromagnet

SOURCE: IVUZ. Elektromekhanika, no. 10, 1966, 1102-1114

TOPIC TAGS: electromagnet, pulse shape

ABSTRACT: The problem of ensuring quick action of an electromagnet with minimum armature-against-core striking force is solved by developing an optimal shape of current impulse in the magnet winding. Theoretical considerations show that: (a) the most desirable armature speed diagram is rectangular, (b) stepping up the force of attraction more than 4 times normal is inexpedient, and (c) the rectangular speed diagram is practically impossible because of electromagnetic and mechanical inertia; hence, a trapezoidal diagram is the most desirable in practice. The optimal current-

Card 1/2

UDC: 621.3.014.33+621.318.4

ACC NR: AP7004342

impulse shape can be ensured by applying a forced voltage impulse to the electromagnet through a suitable transistor or technetron circuit. As Soviet-made transistors are not designed for high enough voltages and Soviet technetrons are not fabricated as yet, a thyristor controlled by a logic circuit was used. Transient processes were simulated on an analog computer. A large shell-type conic-plunger 150-kg-pull electromagnet was tested: a plot of final plunger speed vs. forcing time is shown. Conclusions: (1) The current-forcing time to armature-motion time ratio should be 0.1-0.4; (2) The optimal current-impulse shape permits reducing the striking force by 50%; (3) The simplest device for near-optimal shaping of the current impulse is the thyristor phase-controlled by a semiconductor circuit; (4) In complex cases involving variable-mass nonlinear electromagnetic mechanisms, simulation of transient processes on analog computers is recommended. Orig. art. has: 10 figures, 22 formulas, and 4 tables.

SUB CODE: 09, 20 / SUBM DATE: 06Jan66 / ORIG REF: 004 / OTH REF: 001

Card 2/2

AVILOV-KARNAUKHOV, Boris Nikolayevich, doktor tekhr.nauk, prof.; KAYALOV, Georgiy Mikhaylovich, kand.tekhn.nauk, dotsent; BRUSENTSOV, Leonig Vasil'yevich, assistent; SHALYGIN, Igor'Vladimirovich, assistent

Devices for studying the long-term processes. Izv. vys. ucheb. zav.; elektromkh. 3 no.7:92-98 '60. (MIRA 13:9)

1. Zaveduyushchiy kafedroy elektrifikatsii oromyshlennykh oredoriyatiy Novocherkasskogo politekhnicheskogo institut (for Avilov-Karnaukhov). 2. Novocherkasskiy politekhnicheskiy institut (for Kayalov). 3. Kafedra elektrifikatsii promshlennykh predoriyatiy Novocherkasskogo politekhnicheskogo institut (for Brusentsov). 4. Kafedra elektrifikatsii promyshlennykh predpriyatiy Novocherkasskogo politekhnicheskogo institut (for Shalygin). (Recording instruments)

L 08062-67 ACC NR: AF7001673 SOURCE CODE: UR/0144/66/000/007/0773/0780 AUTHOR: Chalygin, I. V.; Kravchenko, K. F.; Kireyev, O. P.; Korobeynikov, B. A. ORG: none TITLE: Investigation of torque characteristics of pulse electromagnetic drives SOURCE: IVUZ. Elektromekhanika, no. 7, 1966, 773-780 TOPIC TAGS: electromagnet, electric engineering ABSTRACT: The authors analyze the case of drive of a mechanism the applied mass of which on the electromagnet armature is constant or changes insignificantly with time, so that the changes can be ignored. The investigation is limited to the primary function of an electromagnet, when it moves only the actuator mechanism, not when the armature is loaded with other additional forces. The torque characteristics of electromagnets are analyzed in dependence on the form of the air gap between the amature and the stop. A two stage torque characteristic is useful to reduce shock loads in the actuating mechanism. The usage of a two stage torque characteristic in combination with a return spring can reduce or completely eliminate shock loads in the actuating mechanism. With identical parameters of the process, torque characteristic variants with force changes require a considerable increase in initial electromagnet force and strength of the mechanism. Orig. art. has: 3 figures and 15 formulas. [JPRS: 38,490] SUB CODE: 09 / SUBM DATE: 21Dec65 / ORIG REF: 003 Card 1/1 pla UDC: 621.3.018.7+621.374.3

APPROVED FOR RELEASE: 08/23/2000

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Charyarin, F. W.
ini: none
The Americal Accuror with an inductive detector. Class 21, No. 183845
oldered prom obras tov zn, no. 15, 1966, 191
Tokid TAGS: metal inspection, metal test, induced current
Mid. 1971: This Author Cortificate presents a motal locator with an inductive detector. The metal locator includes a generator with positive and negative feedback circuits, an amplifier, and an indicator. The design stabilizes the operating conditions of the generator. An automatically regulated negative feedback circuit is used in the locator. This regulated feedback circuit represents a bridge circuit which is inductively connected with the anode circuit of the amplifier. A thermistor is included in one arm of the bridge. A variable resistor is included in the diagonal of the bridge. The variable resistor is connected with the control grid of the generator. To provide remote verification of the working order of the metal locator, a coil is located in the contour coil of the generator. This coil is locked to the
The court of the country of the control of the generator. The court is recited to the

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SUB JODE: 09, 11 / SUBM DATE: 30May64

UDC: 621.389:550.83

S07/136-59-2-7/24

AUTHORS:

Diomidovskiy, D.A., Shalygin, L.M., Gal'nbek, A.A.

and Yuzhaninov, I.A.

TITLE:

Continuous Converting of Mattes (Nepreryvnoye

konvertirovaniye shteynov)

PERIODICAL: Tsyetnyye Metally, 1959, Nr 2, pp 27-34 (USSR)

ABSTRAUT:

The authors discuss some shortcomings of the present converter process, the chief of which is its discontinuity. They discuss the heat balance of the process in terms of the variation of the calorific

value of the matte and minimal permissible blast utilisation with variation in its copper content (Fig 1 and 2 respectively). Preliminary tests showed that blowing the matte in suspension was not effective and the authors concentrated on top blowing through watercooled tuyeres of the matte flowing through a container (Fig 3). Work with cold hydraulic models and hot

laboratory-scale installations was followed by tests on a 1-tonne (matte) hot installation at the Balkhashskiy Medeplavil'nyy Zavod (Balkhash Copper-smelting Works).

Jard 1/3

This (Fig 4) consisted of a cylindrical horizontal

SOV/136-59-2-7/24

Continuous Converting of Mattes

furnace rotatable about a vertical axis. The furnace was lined with chrome-magnesite brick with heat insulation and had a welded iron shell. The matte entered at one end where the tuyere was located and flux was added, while the slag left at the other end. A type ZIF-51 compressor (rated at 200 nm3/hr at up to 6 atm gauge) and oxygen cylinders provided the blast. Facilities for temperature, gas-composition and flow measurements were provided. Observations of the interaction between the blast, matte, slag and lumps of flux (Fig 5) showed that a tuyere inclination was an important factor. Fig 6 shows the degree of utilisation of oxygen (%) as a function of tuyere inclination (degrees) for heights of tuyere nose above the surfaces of 150 to 200 mm (curve 1) and 250 to 300 mm (curve 2). Optimal conditions for air blowing were established as 70 to 80° tuyere inclination, 4 to 5 atm gauge blast pressure, 300 to 350 mm tuyere-nose height above bath. The results (table 1) showed that the tuyere height above the bath could be increased without reducing oxygen utilisation by oxygen-enrichment of the blast.

Jard 2/3

SOV/136--59--2-7/24

Continuous Converting of Mattes

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compositions of products obtained under the above optimal condition with air blast (tables 2 and 3) were 0.37 to 1.64 and 23.58 to 28.80% Cu and SiO2, respectively in slag and 72.66 to 78.49 and 98.52 to 99.60% Cu in white matte and crude copper respectively. The authors outline one of their proposed continuous—converter processes (the converter is shown in Fig 7) put forward on the basis of their experimental results. They propose a blast pressure of at least 6 to 10 atm gauge and suggest that because of its high concentration the SO2 in the converter waste gas could be utilised. They consider the process particularly attractive with blast oxygenation and applicable to various materials e.g. ferronickel. There are 7 figures, 3 tables and 2 Boviet references.

ASSOCIATION: Leningradskiy Gornyy Institut (Leningrad Mining Institute)

Card 3/3

SHALTGIN, L.M.; METYEROVICH, V.B.

Ways of accelerating the work of nonferrous metal converters.

(MIRA 13:7)

TSvet. met. 33 no.7:16-1) J1 '60.

(MIRA 13:7)

1. Leningradskly gornyy institut (for Shalygin). 2. Belkhashskiy (gorno-metallurgicheskly kombinat (for Meyyerovich).

(Nonferrous metals--Metallurgy)

(Converters)

DIOMIDOVSKIY, Dmitriy Aleksandrovich, prof., doktor tekhn. nauk;

SHALYGIN, Len Mikhaylovich, dots.; GAL'MEEK, Arnol'd

Andreyevich, insh.; YUZHANINOV, Igor' Aleksandrovich, kand.
Andreyevich, insh.; YUZHANINOV, Igor' Aleksandrovich, kand.
tekhn. nauk; MIKHAYLENKO, A.Ya., dots., kand. tekhn. nauk,
retsenzent [deceased]; ARKHANGEL'SKAYA, M.S., red. izd-va;
KARASEV, A.I., tekhn. red.

[Calculation of pyrometallurgical processes and furnaces for
nonferrous metallurgy] Raschety piroprotsessov i pechel tsvetnonferrous metallurgia. Pod nauchnoi red. D.A.Diomidovskogo. Monoi metallurgia. Pod nauchnoi red. D.A.Diomidovskogo. Moskva, Metallurgiadat, 1963. 459 p.

(Nonferrous metals—Metallurgy)

SHALYGIN, L.M.; DIOMIDOVSKIY, D.A.

Investigating the nickel matte converter process with top blowing
Investigating the nickel matte converter process with top blowing
Ag no.8:29-30
(MIRA 16:9)
Ag '63.

(Nickel--Metallurgy) (Converters)

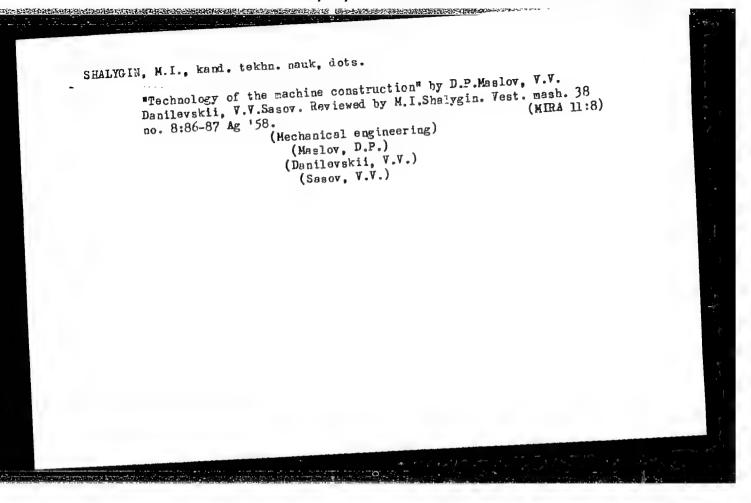
SHALYGIN, Len Mikhaylovich

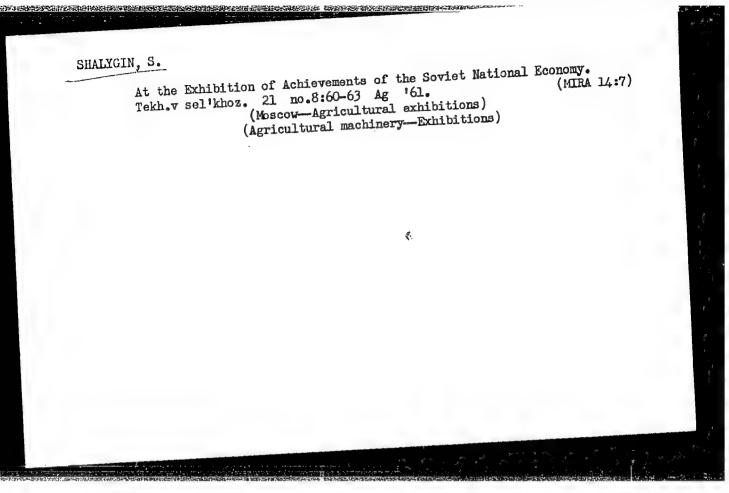
[Converter process in nonferrous metallurgy] Konverternyi peredel v tsvetnoi metallurgii. Moskva, Metallurgiia, 1965.
159 p. (MIRA 18:4)

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USSR/R zincering Machines, Milling	Feb 1948	,
Machinery - Construction		
"Use of Magnetic Slabs for Strengt Finished on a Milling Machine," M	hening Parts Being	•
Finished on a Milling Machine,		ė.
"Stanki i Instrument" No 2		
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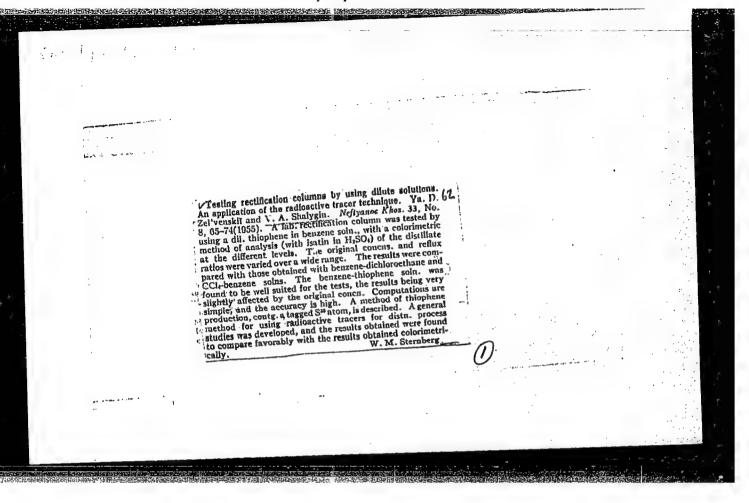




Measurement of the activity of liquids labeled with mild emission. Zhur.fiz.khim.29 no.9:1706-1710 S *55.(MLRA 9:4)

1.Khimike-tekhnologicheskiy institut imeni D.I.Mendeleyeva, Moskva.

(Liquids) (Radioactive tracers)



CIA-RDP86-00513R001548420009-8 "APPROVED FOR RELEASE: 08/23/2000

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CHINA/Processes and Equipment for Chemical Industries -

Processes and Apparatus for Chemical Technology

: Referat Zhur - Khimiya, No 9, 1957, 33263 Abs Jour

: Zel'venskiy, Ya.D., Shalygin, V.A. Author

Inst

: Testing of Rectification Columns with Dilute Solution. Title

Use of the Method of Radioactive Tracers.

: Khuasyue shitsze, 1956, No 10, 530-533, 534. Orig Pub

: A translation, see RZhKhim, 1956, 21435. Abstract

Card 1/1

JOV/156 58-1-11/46 Zel venskiy Ya. D., Shalygin, V. A. STEDES: The Isotopic Exchange Between Sulfur and Caroon Disulfide as PIFLE Well as Between Sulfur and Carbon Sulfoxide (Izotopnyy obmen me dadu seroy i serouglerodom i mezhdu seroy i serookis'yu umlerodu) FERIODIC. 1: Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya tekhnologiya 1958, Nr ! pp. 40-45 (USSR) V. M. Mikolayeva assisted in the experiments. The subject ABJTRACT: mentioned in the title is theoretically interesting in connection with the explanation of the mobility of sulfur in the mentioned compounds. Practically it is important for the creation of a method capable of high production of labelled carbon disulfide and carbon sulfoxide. At the beginning the authors give a short survey of publications (Refs 4 - 3). They carried out the isotopic exchange by heating of a solution of labelled sulfur in carbon disulfide. In the Γ^{St} experimental series the concentration of the elementary sulfur in the solution remained constant (6,2010 - g-atom/1). The effectiveness of the exchange was Dard 1/1

The Isotopic Exchange Between Sulfur and Carbon

Distiffue as Well as Between Sulfur and Jarbon

Sulfoxide

Investigated at 182, 217, and 257°. Figure 1 shows the results. at 157° within 30 - 60 minutes the exchange reached the miximum value which deviated a little from 100% (in consequence of the impure sulfur, as is assumed). As is known, the course of the reaction of the isotopic exchange with time is expressed by the kinesic solution of first order independently of the machanism and of the real order of the reaction (Ref 5).

 $(x_{i}) = \frac{\lambda_{i}}{\lambda_{i}} = \frac{\lambda_{i}}{\lambda_{i}}$ = $\frac{\lambda_{i}}{\lambda_{i}}$ = the duration of the exchange;

 k^* denotes the apparent velocity constant, x the activity of the sample at the time t, x_∞ the activity of the sample in the case of a complete exchange, i. e. in the case of a uniform distribution of the isotope. The constructed diagrams

of the dependence log (: - $\frac{x}{x_{oc}}$) on time showed that the

experimental results are placed satisfactorily on a straight time for each of the investigated temperatures according to equation (1). From this the values of the

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the Ichtopic Exchange Between Sulfur and Carbon Disulfide as Well as Between Sulfur and Carbon Sulfoxide SOV 156 58-1-11/46

apparent velocity constant of the exchange reaction could be culculated (Table)) From the data of table 1 the activation energy of the exchange reaction between carbon disulfide and elementary sulfur was determined (at 2570, duration of one hour!. Figure 2 gwes data at various sulfur concentrations. They show that the effectiveness of the exchange is reduced with rising concentration of the elementary sulfur in the case of equal conditions. The connection between the true (k) and the apparent velocity constant (k') is expressed by equation (2). After various calculations the authors found that for the isotopic exchange of sulfur in the system sulfur carbon disulfide the real order of the reaction (with respect to sulfur ' is equal to zero. This explains the inversely proportional relation between the exchange degree and the sulfur concentration. IInd experimental series. In order to accelerate the reaction between sulfur and carbon sulfoxide, the experiments were carried out in benzene, toluene, and absolute ethyl alcohol as solvent. Table 2 gives the results.

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The Lataple as merge Between Sulfar and Carbon Jimilfide a Well as Between Julfur and Carbon Sulfoxide

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Ethanol turned out to be the most effective solvent. Fig. 4 gives the results concerning the exchange at 217 and 257°. dithin 1- 5 hours at 2570 the exchange approaches towards a perfect one. This reaction has as well a zero order for sulfur. There are 4 figures, 2 tables, and 6 references, 5 of which are Soviet.

ABBODIATION: Rafedra tekhnologii razdeleniya i primeneniya izotopov Meskovskogo knimiko-teknnologicheskogo instituta im. D. I. Mendelevers (Chair of Technology of Separation and Use of Isotopes at the Moseow Institute of Chemical Technology imeni D.I. Mendelayev)

SUBMITTED: October 10, 1957

Card 4/4

187 17 648848 18 18 1/40 graneski. N. D. Brilly, V. B. Beslegis, V. A. ्षण्यक्षा disparation of .coropes by Means of Armiffication (Rendelenive 93.70bs izobopio nentičika siver) de numoj Rectification (Rekvifikatsiya me Standard Co. Neochogy a schledy asserty sakely. Ebimiya i khimicheskaya FERIODICAL: cabrolog . s. 1918. Mr. 3. op. 388-391 (MSSR) Among the possible methods of separation of isotopes recti-BUTTERSOT: floorion is one of the most economical methods. For this reason its experimental investigation is of interest. In the investigations covered by the present paper methanol was rectified to the form of an isotope mixture. The change in the isotope composition has determined according to all methanoi-forming exements $J_{\rm eff}$, and $J_{\rm eff}$, a certain amount of radioactive methanol ris than saded and separation was observed according to the instance of . The protification apparatus is shown in figure T. The isotope concentration of the and 0 18 was determined by meens of mass speckrometry. For this purpose the sample was 0.03 1 4

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Separation of Isotopes by Means of Rectification. Methanol Rectification

first decomposed on sinc sulfide as 350° into a mixture of CO : H. . From this mixture CO, ses produced on an iron catalysi at occurring to the Boudoir (Euduar)-reaction and analyzed in the mass spectrometer. The deuterism concentration was determined by means of the flotation method according to the dansity of the water formed as a result of methanol combuntion. The water first was normalized to oxygen by means of isotope exchange with air on a manganese catalyst at 500 - 600° C. The U14 -concentration was determined directly by ... measuring the methanol activity according to a method arready describe: (Ref i). The results of the experiments are given on figure and 3. The obtained stationar, changes f economication of the florope methanol varieties are znews on table to how the a rosules the authors draw the conclusion that methanols, the comto costs of which form heavy carbon isotopis and mount molatiletough the ordinary methanol. In this convection wher members! tournathing the was more volumble than then torn the constraint to fact as observed by the workers although mariter in the case of the cook is more votable inc

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Separation of Isotopes by Means of Rectification. Methanol Rectification

The determinations of the changes of concentration at the l time they reach the stationary state (Figs 2, 3) made possible the computation of the number of theoretical steps of separation (n_{t}) . Furthermore the non-recurring coefficient of separation (a, Fenske equation, Ref 4) was computed. Among several soluns surgested the authors used that made by Babkov and Arronkov (Ref 5) as final solution. The thus obtained values of $\ell_{\rm t}$ and $n_{\rm t}$ are given on table 1. As could be expected the one ficient a for deuterium is highest. It is followed by C14 and C13. here are 3 figures, 1 table, and 5 references, 2 of which a co. . vict.

ASSOCIATION: Kafedra tekhnologii razdeleniya i primeneniya izotopov Moskevskogo khimiko-tekhnologicheskog instituta im. D. I. Mendeleyeva (Chair for the Separation and the or Isotopes of the Moscow Chemical Technological Institute imeni D. I. Mendeleyev)

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SOV/156-58-2-17/48
Separation of Isotopes by Means of Rectification. Methanol Rectification
SUBMITTED: October 2, 1957

Card 4/4

ZELVENSKIY, Ya.D.; KOLLEROV, D.K.; TYRSIN, A.A.; SHALTGIN, Y.A.

Use of radioactive isotopes of sulfur to study the processes of the formation of corrosive substances in compressors and gas pipes.

(MIRA 11:5)

Gaz. prom. no.5:41-45 My 58.

(Sulfur--Isotopes)

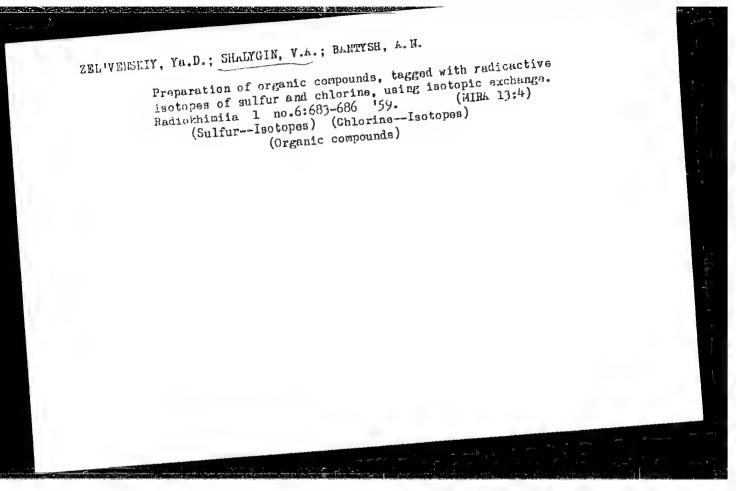
(Corrosion and anticorrosives)

GAZIYEV, G.A.; ZEL'VENSKIY, Ya.D.; SHALYGIN, V.A.

Liquid-vapor equilibriums in binary mixtures of ethyl alcohol isopropyl alcohol and carbon bisulfide - methyl iodide. Zhur. prikl.

khim. 31 no.8:1220-1227 Ag '58. (Systems (Chemistry)) (Phase rule and equilibrium)

SHALYGIN, V. A., Candidate Chem Sci (diss) -- "The use of the method of tagged atoms in investigating rectification processes". Moscow, 1959. 11 pp (Min Higher Educ USSR, Moscow Order of Lenin Chem-Tech Inst im D. I. Mendeleyev, Chair of the Tech of Separating and Using Isotopes), 150 copies (KL, No 25, 1959, 128)



SHALYGIN, V.A.

Simplified analytical method of calculating the number of theoretical separation stages for the rectification of binary mixtures. Izv.vys.ucheb.zav.; khim.i khim tekh. 3 no.1:208-210 (MIRA 13:6)

1. Kafedra tekhnologii razdeleniya i primeneniya izotopov. Moskovakogo khimiko-tekhnologicheskogo instituta imeni D.I. Mendeleyeva.

(Distillation, Fractional)

ZEL'VENSKIY, Ya.D.; SHALYGIN, V.A.

Effect of the size of the selected distillate on the degree of separation in a rectification column. Khim.i tekh.topl.i masel 5 no.7:19-24 Jl '60. (MIRA 13:7)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva.

(Distillation, Fractional)

(Petroleum-Refining)

S/064/62/000/005/001/002 B144/B136

AUTHORS: Selvenskiy, Yo. D., Shalygin, V. A., Golubkov, Yu. V.

TIPLE: Removal of phosphorus trichloride impurities from silicon

chloride

PERFORMANCE Khimicheskaya promyshlennost', no. 5, 1962, 41-46

TEXT: SiCl₄ was purified of PCl₅ by (I) rectification; (II) adsorption. This is the first time that the liquid-vapor equilibrium has been determined with PCl₅ concentrations from 0.001 to 0.205 % by weight at 300-760 mm Hg. To avoid analytical difficulties due to the low PCl₅ concentrations, P³² was used. The temperature dependence of the separation concentrations, P³² was used. The temperature dependence of the separation coefficient c is not important and can be expressed by $\log \alpha = 79.245/T-0.015$. Rectification in vacuo has no special advantage over that under Rectification in vacuo has no special advantage over that under atmospheric pressure. a is not influenced by additions of 0.0125-0.324 % by atmospheric pressure. a is not influenced by additions of 0.0125-0.324 % by atmospheric pressure. a is not influenced by additions of 0.0125-0.324 % by atmospheric pressure. a is not influenced by additions of 0.0125-0.324 % by atmospheric pressure. But not influenced by additions of 0.0125-0.324 % by atmospheric pressure. But not influenced by additions of 0.0125-0.324 % by atmospheric pressure. But not influenced by additions of 0.0125-0.324 % by atmospheric pressure. But not influenced by additions of 0.0125-0.324 % by atmospheric pressure. But not influenced by additions of 0.0125-0.324 % by atmospheric pressure. But not influenced by additions of 0.0125-0.324 % by atmospheric pressure.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548420009-8

Removal of phosphorus...

S/064/62/000/005/001/002 B144/B138

above. The adsorption rate was independent of external diffusion, but apparently dependent on internal diffusion, since the saturation of the adsorbent increases with lecreasing granulation. There are 7 figures and a tables.

Fig. 4. Isotherm. of PCl $_3$ adsorption from SiCl $_4$ solution in the range of small PCl $_5$ concentrations.

Legend: 1,2,3,4,5 see text; (a) adsorption capacity, $A \cdot 10^2$, mmole/g; (b) PCl₃ concentration, $C \cdot 10^2$, % by weight

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Differential method of simple distillation for investigating liquid - vapor equilibrium. Zhur.fiz.khim. 35 no.12:2802-2806 (MIRA 14:12)

D 161.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

(Phase rule and equilibrium)

(Distillation)